

CLAIMS

What is claimed is:

- 1 1. An apparatus comprising:
2 a computing subsystem to process data and execute program instructions; and
3 an optical subsystem coupled to said computing subsystem, said optical
4 subsystem integrated into said apparatus to project an image for said computing
5 subsystem onto a viewing surface.
- 1 2. The apparatus of claim 1 further wherein said computing subsystem and said
2 optical subsystem are housed together in a base unit.
- 1 3. The apparatus of claim 2 wherein said viewing surface comprises a portable,
2 passive screen having a white area to display said image.
- 1 4. The apparatus of claim 3 further comprising a first wireless input device coupled
2 to said computing subsystem via a first wireless communication link, said first wireless
3 input device to receive user input and to send said user input to said computing
4 subsystem via said first wireless communication link.
- 1 5. The apparatus of claim 4 wherein said first wireless input device is a keyboard.
- 1 6. The apparatus of claim 5 further comprising a second wireless input device
2 coupled to said computing subsystem via a second wireless communication link, wherein

3 said wireless input device is a mouse.

1 7. The apparatus of claim 6 wherein said optical subsystem comprises an integrated
2 micro projection device.

1 8. The apparatus of claim 7 wherein said micro projection device comprises a liquid
2 crystal on semiconductor (LCOS) device to manipulate light in response to graphical
3 data.

1 9. The apparatus of claim 8 further comprising optics to receive manipulated light
2 from said LCOS device, said optics to form said manipulated light into said image.

1 10. The apparatus of claim 9 further comprising a wireless transceiver coupled to said
2 computing subsystem, said wireless transceiver to form said first wireless communication
3 link between said computing subsystem and said first wireless input devices, and to form
4 said second wireless communication link between said computing subsystem and said
5 second wireless input device.

1 11. The apparatus of claim 10 wherein said apparatus comprises a mobile computer
2 system.

1 12. A mobile computer comprising:
2 a memory to store instructions;
3 a processor coupled to said memory, said processor to execute said instructions;

4 a graphics controller coupled to said processor, said graphics controller to receive
5 commands from said processor and to generate display data;
6 a light modulator coupled to said graphics controller, to receive said display data
7 and to modulate light based on said display data; and
8 an optic coupled to said light modulator, said optic to receive modulated light
9 from said light modulator, said optic to create an image on a surface.

1 13. The mobile computer of claim 12 wherein said light modulator comprises a
2 silicon based semiconductor device to reflect light through said optic.

1 14. The mobile computer of claim 13 wherein said silicon based semiconductor
2 device comprises a liquid crystal on semiconductor (LCOS) device.

1 15. The mobile computer of claim 14 wherein said mobile computer lacks a liquid
2 crystal display (LCD) screen.

1 16. The mobile computer of claim 15 wherein said surface comprises a passive
2 display screen to display said image.

1 17. The mobile computer of claim 16 further comprising a wireless input device
2 coupled to said processor, said wireless input device to receive user input, and to send
3 said user input to said processor via a wireless communication link.

1 18. A method comprising:
2 executing program instructions on a mobile computer;
3 generating display data based on results of said instructions;
4 propagating said display data to a micro projection system that is integrated
5 within said mobile computer;
6 modulating light beams in response to said display data; and
7 projecting modulated light beams through optics.

1 19. The method of claim 18 further comprising displaying an image resulting from
2 said modulated light beams onto a portable, passive display screen.

1 20. The method of claim 19 further comprising storing said display data in a frame
2 buffer within said micro projection system integrated within said mobile computer.

1 21. The method of claim 20 further comprising receiving user input from a wireless
2 input device via a wireless communication link.